

C-AD

Issued: February 3, 2009

DB

Radiation

Safety

Minutes of Radiation Safety Committee of February 3, 2009

Committee

Subject: Proposed Modifications to Thompson Road

Present: D. Beavis, R. Karol, L. Ahrens, P. Bergh, W. MacKay, J.W. Glenn, E. Lessard, P. Sullivan, J. Sandberg, J. Reich, A. Pendzick, V. Schoefer

The committee had reviewed¹ issues regarding Thompson Road on Nov. 20, 2008 and requested data on the dose history at Thompson road for the last several runs before issuing recommendations based on those presented² at the Nov. 20, 2008 meeting. The chipmunk data³ was discussed and the committee recommends that

Thompson Road be an uncontrolled area during RHIC operations if there is concurrence from RCD.

Justification

All the chipmunks and TLDs that have been examined for the area indicate that based on past operations it is unlikely that a person at Thompson Road would receive a dose of 25 mrem in a year. Typically the chipmunks are operating at or close to their keep alive source level.

The following is recommended for the area:

Move the four chipmunks so they are closer to the road within the allowed range of the present cabling. **(CK_RHIC_fy2009-585)**

Place four TLD close to the road and chipmunks and include some TLDs for fast neutrons. **(CK-RHIC-fy2009-586)**

Obtain concurrence from RCD. **(Ck-RHIC-fy2009-587)**

Post the area north of the road as a controlled area but the area south of the road can be uncontrolled. **(CK-RHIC-fy2009-588)**

Any AGS operations above the administrative limit for the AGS requires review of Thompson Road. **(CK-AGS-fy2009_589)**

It is expected that keeping Thompson Road open will be beneficial for workers going to the Linac, Booster, and EBIS.

The impact of lost time due to interlocks was discussed but there was not sufficient information to evaluate the impact. At present it was determined that the option of having the road open was more beneficial than removing the interlocks and have the road closed.

The road preceding the area under discussion has signage that states “ local traffic only” from each approach direction.

Should RCD not concur with the committee’s recommendation than a subcommittee will meet with RCD and determine a final configuration.

References

1. [RSC Minutes of Nov. 20, 2008.](#)
2. D. Beavis memorandum, “[Proposed Changes to the Radiation Protection of Thompson Road](#)”, Nov. 18, 2008.
3. D. Beavis memorandum, “[Chipmunk Data for Thompson Road](#)”, Jan. 30, 2009.

CC:

RSC
Present
P. Ingrassia
R. Atkins
RSC Minutes file
RSC RHIC file
A. Dress
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